



SEQUENCE LISTING

<110> Universtiy of Utah Research Foundation
Bessereau, Jean-Louis
Jorgensen, Erik

<120> Method of Transposon-Mediated Mutagenesis in the Nematode
Caenorhabditis Elegans

<130> 0274-6277.1US

<140> US 09/980,644

<141> 2001-11-01

<150> PCT/US00/40091

<151> 2000-06-01

<150> US 60/136,972

<151> 1999-06-01

<160> 56

<170> PatentIn version 3.2

<210> 1

<211> 26

<212> DNA

<213> Artificial

<220>

<223> Primer oJL102

<400> 1

caaccttgac tgtcgaacca ccatag

26

<210> 2

<211> 23

<212> DNA

<213> Artificial

<220>

<223> Primer oJL104

<400> 2

acaaagagcg aacgcagacg agt

23

<210> 3

<211> 25

<212> DNA

<213> Artificial

<220>

<223> Primer oJL103

<400> 3
tctgcgagtt gtttttgcgt ttgag

25

<210> 4
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Primer oJL88

<400> 4
cgcatgcggc ttactcac

18

<210> 5
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer oJL89

<400> 5
ggccccatcc gattaccacc ta

22

<210> 6
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer oJL19

<400> 6
gcgaaacgca taccaactgt a

21

<210> 7
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer oJL20

<400> 7
ttcatgccga aaagcaggcg t

21

<210> 8
 <211> 21
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL132

 <400> 8
 atatgcggtg cgatgggtga g 21

 <210> 9
 <211> 22
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL133

 <400> 9
 ggcgaacgcg atgagaagaa ag 22

 <210> 10
 <211> 26
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL114

 <400> 10
 aaagattcag aaggtcggta gatggg 26

 <210> 11
 <211> 22
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL115

 <400> 11
 gctcaattcg cgccaaacta tg 22

 <210> 12
 <211> 24
 <212> DNA
 <213> Artificial

 <220>

<223> Primer oJL116

 <400> 12
 gaacgagaga ggcagatgga gagg 24

 <210> 13
 <211> 21
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL129

 <400> 13
 ccaaattgcgt ctgtcccact c 21

 <210> 14
 <211> 24
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer oJL149

 <400> 14
 aagtatggcc aaacgaccgc acac 24

 <210> 15
 <211> 23
 <212> DNA
 <213> Artificial

 <220>
 <223> primer oJL150

 <400> 15
 gcattggcac ctttctccct tct 23

 <210> 16
 <211> 21
 <212> DNA
 <213> Artificial

 <220>
 <223> primer oJL145

 <400> 16
 acaggcagca ttttgtagtc t 21

<210> 17
 <211> 24
 <212> DNA
 <213> Artificial

 <220>
 <223> primer oJL148

 <400> 17
 aggctgcctc gtaagttcct acag 24

 <210> 18
 <211> 51
 <212> DNA
 <213> Artificial

 <220>
 <223> artificial intron

 <400> 18
 gtaagtttaa acatatatac taactaacc atggattatt taaattttca g 51

 <210> 19
 <211> 26
 <212> DNA
 <213> Artificial

 <220>
 <223> primer oJL21

 <400> 19
 cgaagcttgc tggacggaaa tagtgg 26

 <210> 20
 <211> 26
 <212> DNA
 <213> Artificial

 <220>
 <223> primer oJL22

 <400> 20
 cgacgcgttc ttgaagttta gagaat 26

 <210> 21
 <211> 34
 <212> DNA
 <213> Artificial

 <220>

<223> primer oJL77

<400> 21

gcacgcgtta tgtcgagttt cgtgccgaat aaag

34

<210> 22

<211> 49

<212> DNA

<213> Artificial

<220>

<223> primer oJL78

<400> 22

gcgctagcta ttcaaagtat ttgccgtcgc tcgcgacaca tttttccca

49

<210> 23

<211> 347

<212> DNA

<213> Artificial

<220>

<223> inverse PCR product

<400> 23

cagtcaaggt tgacacttac aaggtcaaag ttttatgaca atcgataaat atttacgttt

60

gcgagacatc tatatgttcg aaccgacatt ccctacttgt acacctggta aatgaaagct

120

ggtgacgtgg agattacgtc cccgtaaaaa ttattgcgaa atatgcaacg gtggccgaga

180

aaatccgcga ccccgctcgac ccagacacgg ttgattctcc agtgacggtc gatcaacaaa

240

aaagatccat ttttcatctc cagtaacgat acgatgcaaa aacgacttcc ttttgtatcg

300

tgaaagcaaa atttcgcatg tgtttttgcg cctctccatc tgcctct

347

<210> 24

<211> 21

<212> DNA

<213> *Drosophila mauritiana*

<400> 24

gcagtcaaca tgtcgagttt c

21

<210> 25

<211> 18

<212> DNA

<213> *Drosophila mauritiana*

<400> 25
gatgctcaaa cgcaaaaa 18

<210> 26
<211> 20
<212> DNA
<213> Drosophila mauritiana

<400> 26
tttgaataaa tgattttttc 20

<210> 27
<211> 4
<212> PRT
<213> Drosophila mauritiana

<400> 27
Met Ser Ser Phe
1

<210> 28
<211> 6
<212> PRT
<213> Drosophila mauritiana

<400> 28
Asp Ala Gln Thr Gln Lys
1 5

<210> 29
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi1 insertion of Mos1 into *C. elegans* genome

<400> 29
gttttagcgac gagtgacata ccaggtgtac 30

<210> 30
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi1 insertion of Mos1 into *C. elegans* genome

<400> 30

gtacacctga taattctccg aaagcttcag 30

<210> 31
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi2 insertion of Mos1 into *C. elegans* genome

<400> 31
tcgataaata aattatttta ccaggtgtac 30

<210> 32
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi2 insertion of Mos1 into *C. elegans* genome

<400> 32
gtacacctga taattctatc caaaaatcgc 30

<210> 33
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi3 insertion of Mos1 into *C. elegans* genome

<400> 33
aaagtagtgg atgcatata ccaggtgtac 30

<210> 34
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi3 insertion of Mos1 into *C. elegans* genome

<400> 34
gtacacctga taataagaga ggcgaaggat 30

<210> 35
<211> 30
<212> DNA

<213> Artificial

 <220>
 <223> oxTi4 insertion of Mos1 into *C. elegans* genome

 <400> 35
 tcctctttttc cagacgagta ccaggtgtac 30

 <210> 36
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi4 insertion of Mos1 into *C. elegans* genome

 <400> 36
 gtacacctga tatatccttt tgttccttgc 30

 <210> 37
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi5 insertion of Mos1 into *C. elegans* genome

 <400> 37
 gtcggacaat cagaagtgtgta ccaggtgtac 30

 <210> 38
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi5 insertion of Mos1 into *C. elegans* genome

 <400> 38
 gtacacctga taagaactaa aaggacaccg 30

 <210> 39
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi6 insertion of Mos1 into *C. elegans* genome

 <400> 39

ttgaacaata aatactaata ccaggtgtac 30

<210> 40
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi6 insertion of Mos1 into *C. elegans* genome

<400> 40
gtacacctga tattgttgct ctcaagattt 30

<210> 41
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi8 insertion of Mos1 into *C. elegans* genome

<400> 41
gacgcaataa atccacaata ccaggtgtac 30

<210> 42
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi8 insertion of Mos1 into *C. elegans* genome

<400> 42
gtacacctga taattttccc gactcttaca 30

<210> 43
<211> 30
<212> DNA
<213> Artificial

<220>
<223> oxTi9 insertion of Mos1 into *C. elegans* genome

<400> 43
ccctctccaa tagtctagta ccaggtgtac 30

<210> 44
<211> 30

<212> DNA
 <213> Artificial

 <220>
 <223> oxTi9 insertion of Mos1 into *C. elegans* genome

 <400> 44
 gtacacctga taaatgtcat cagaattcat 30

 <210> 45
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi11 insertion of Mos1 into *C. elegans* genome

 <400> 45
 accaaaaagca aaaacactta ccagggtgtac 30

 <210> 46
 <211> 30
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi11 insertion of Mos1 into *C. elegans* genome

 <400> 46
 gtacacctga taaccaaagt atgggtggca 30

 <210> 47
 <211> 28
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi4 insertion of Mos1

 <400> 47
 ctctttttcca gacgagtacc aggtgtac 28

 <210> 48
 <211> 27
 <212> DNA
 <213> Artificial

 <220>
 <223> oxTi4 insertion of Mos1

<400> 48
 tacacctgat atatcctttt gttcctt 27

<210> 49
 <211> 36
 <212> DNA
 <213> Artificial

<220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

<400> 49
 ctctttttcca gacgagtata tatccttttg ttcctt 36

<210> 50
 <211> 37
 <212> DNA
 <213> Artificial

<220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

<400> 50
 ctctttttcca gacgagtaat atatcctttt gttcctt 37

<210> 51
 <211> 39
 <212> DNA
 <213> Artificial

<220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

<400> 51
 ctctttttcca gacgagtatg atatatcctt ttgttcctt 39

<210> 52
 <211> 37
 <212> DNA
 <213> Artificial

<220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

<400> 52
 ctctttttcca gacgagtact atatcctttt gttcctt 37

<210> 53
 <211> 21

<212> DNA
 <213> Artificial

 <220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

 <400> 53
 tgatatatcc ttttggtcct t 21

 <210> 54
 <211> 17
 <212> DNA
 <213> Artificial

 <220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

 <400> 54
 ctctttttcca gacgaga 17

 <210> 55
 <211> 18
 <212> DNA
 <213> Artificial

 <220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

 <400> 55
 ctctttttcca gacgagta 18

 <210> 56
 <211> 66
 <212> DNA
 <213> Artificial

 <220>
 <223> lesion generated after removal of Mos1 in oxTi4 insertion

 <400> 56
 ctctttttcca gacgagtaat tggtttactct cagtgcagtc aacatgtcga ttccttttg 60
 ttcctt 66